

CLAIMS

What is claimed is

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1. In a serial bus module, a method for presenting a plurality link devices as separate nodes comprising:
  - a) creating an individual configuration ROM image for each link device; and
  - b) presenting said configuration ROM image for each said link device.
- 10 2. The method of claim 1 wherein each said configuration ROM image includes a entry for a distinct identifier for a corresponding link device.
- 15 3. The method of claim 2 wherein said presenting said configuration ROM image comprises:
  - a) receiving from one of said link devices a block request and a link ID; and
  - b) providing configuration ROM associated with said link ID.
- 20 4. The method of claim 1 wherein said creating and presenting said configuration ROM image is carried out by transaction layer software.
- 25 5. A serial bus module device comprising:
  - a) a plurality of link layer devices;
  - b) a transaction layer software; and
  - c) for each of said link layer device, a distinct configuration ROM image presented by said transaction layer software.

6. The serial bus module device of claim 5, wherein each said link layer device includes an associated global unique identifier, and wherein each said configuration ROM image includes a corresponding entry for said associated global unique identifier.

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7. A communication system comprising:

10 a) plurality of serial bus modules; and

b) a serial bus connected to each said serial bus modules, one of said modules comprising a plurality of link layer devices, a transaction layer software, and for each of said link layer device, a distinct configuration ROM image presented by said transaction layer software.

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8. The communication system of claim 7, wherein each said link layer device includes an associated global unique identifier, and wherein each said configuration ROM image includes a corresponding entry for said associated global unique identifier.

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9. A program storage device readable by a machine, tangibly embodying a program of instructions executable by the machine to perform a method for presenting a plurality link devices as separate nodes said method comprising:

a) creating an individual configuration ROM image for each link device; and

b) presenting said configuration ROM image for each said link device.

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10. The program storage device of claim 9 wherein each said configuration ROM image includes a entry for a distinct identifier for a corresponding link device.

11. The program storage device of claim 10 wherein said presenting said configuration ROM image comprises:

- 5 a) receiving from one of said link devices a block request and a link ID; and
- b) providing configuration ROM associated with said link ID.